

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Georgia-Pacific Wood Products LLC

AUTHORIZING THE OPERATION OF
Diboll Complex
Diboll Lumber Operation
Sawmills

LOCATED AT
Angelina County, Texas
Latitude 31° 10' 59" Longitude 94° 47' 16"
Regulated Entity Number: RN104725445

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1780 Issuance Date: _____

For the Commission

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General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts DDDD, ZZZZ, and DDDDD as identified in the attached Applicable Requirements Summary table are subject to 30 TAC

Chapter 113, Subchapter C, §§ 113.870, 113.1090, and 113.1130 which incorporates the 40 CFR Part 63 Subparts by reference.

- F. For the purpose of generating discrete emission reduction credits through 30 TAC Chapter 101, Subchapter H, Division 4 (Discrete Emission Credit Banking and Trading), the permit holder shall comply with the following requirements:
 - (i) Title 30 TAC § 101.372 (relating to General Provisions)
 - (ii) Title 30 TAC § 101.373 (relating to Discrete Emission Reduction Credit Generation and Certification)
 - (iii) Title 30 TAC § 101.374 (relating to Mobile Discrete Emission Reduction Credit Generation and Certification)
 - (iv) Title 30 TAC § 101.378 (relating to Discrete Emission Credit Banking and Trading)
 - (v) The terms and conditions by which the emission limits are established to generate the discrete reduction credit are applicable requirements of this permit
- 2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
- 3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit

holder shall comply with the following requirements for stationary vents at the site subject to this standard:

- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(1)(E)
- (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
- (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
 - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
 - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
 - (3) Records of all observations shall be maintained.
 - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet

prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

B. For visible emissions from a building, enclosed facility, or other structure; the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(7)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(7)(B)(i) or (ii)
- (iii) For a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source subject to 30 TAC § 111.111(a)(7)(A), complying with 30 TAC § 111.111(a)(7)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:
 - (1) An observation of visible emissions from a building containing an air emission source, enclosed facility, or other structure containing or associated with an air emission source which is required to comply with 30 TAC § 111.111(a)(7)(A) shall be conducted at least once during each calendar quarter unless the air emission source or enclosed facility is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.

- (3) Visible emissions observations of air emission sources or enclosed facilities operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of air emission sources or enclosed facilities operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each emissions outlet in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each emissions outlet during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(7) and (a)(7)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(7)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

C. For visible emissions from all other sources not specified in 30 TAC § 111.111(a)(1), (4), or (7); the permit holder shall comply with the following requirements:

- (i) Title 30 TAC § 111.111(a)(8)(A) (relating to Requirements for Specified Sources)
- (ii) Title 30 TAC § 111.111(a)(8)(B)(i) or (ii)
- (iii) For a source subject to 30 TAC § 111.111(a)(8)(A), complying with 30 TAC § 111.111(a)(8)(B)(i) or (ii), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146:

- (1) An observation of visible emissions from a source which is required to comply with 30 TAC § 111.111(a)(8)(A) shall be conducted at least once during each calendar quarter unless the source is not operating for the entire quarter.
 - (2) Records of all observations shall be maintained.
 - (3) Visible emissions observations of sources operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of sources operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions shall be determined with each source in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each source during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
 - (4) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(8) and (a)(8)(A)
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(8)(B) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- D. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- E. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).

- F. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
 - G. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (ii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
4. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
- A. When filling gasoline storage vessels with a nominal capacity greater than 1,000 gallons (Stage I) at motor vehicle fuel dispensing facilities, which have dispensed less than 100,000 gallons of gasoline in any calendar month after October 31, 2014, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)
 - B. When filling stationary gasoline storage containers with a nominal capacity less than or equal to 1,000 gallons at a Stage I motor vehicle fuel dispensing facility, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors

5. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
 - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
 - B. Title 40 CFR § 60.8 (relating to Performance Tests)
 - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
 - D. Title 40 CFR § 60.12 (relating to Circumvention)
 - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
 - F. Title 40 CFR § 60.14 (relating to Modification)
 - G. Title 40 CFR § 60.15 (relating to Reconstruction)
 - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
6. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.

Additional Monitoring Requirements

7. Unless otherwise specified, the permit holder shall comply with the compliance assurance monitoring requirements as specified in the attached "CAM Summary" upon issuance of the permit. In addition, the permit holder shall comply with the following:
 - A. The permit holder shall comply with the terms and conditions contained in 30 TAC § 122.147 (General Terms and Conditions for Compliance Assurance Monitoring).
 - B. The permit holder shall report, consistent with the averaging time identified in the "CAM Summary," deviations as defined by the deviation limit in the "CAM Summary." Any monitoring data below a minimum limit or above a maximum limit, that is collected in accordance with the requirements specified in 40 CFR § 64.7(c), shall be reported as a deviation. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).
 - C. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "CAM Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances in order to avoid reporting deviations. All monitoring data shall be collected in accordance with the requirements specified in 40 CFR § 64.7(c).
 - D. The permit holder shall operate the monitoring, identified in the attached "CAM Summary," in accordance with the provisions of 40 CFR § 64.7.
 - E. The permit holder shall comply with either of the following requirements for any particulate matter capture system associated with the control device subject to CAM. If

the results of the following inspections indicate that the capture system is not working properly, the permit holder shall promptly take necessary corrective action:

- (i) Once per year the permit holder shall inspect any fan for proper operation and inspect the capture system used in compliance of CAM for cracks, holes, tears, and other defects; or
- (ii) Once per year, the permit holder shall inspect for fugitive emissions escaping from the capture system in compliance of CAM by performing a visible emissions observation for a period of at least six minutes in accordance with 40 CFR Part 60, Appendix A, Test Method 22.

F. The permit holder shall comply with the requirements of 40 CFR § 70.6(a)(3)(ii)(A) and 30 TAC § 122.144(1)(A)-(F) for documentation of all required inspections.

8. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

New Source Review Authorization Requirements

9. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
- A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
10. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
11. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and

available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

12. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
13. Use of Discrete Emission Credits to comply with the applicable requirements:
 - A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Protection of Stratospheric Ozone

14. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
 - A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by

properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

Permit Location

15. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

16. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Additional Monitoring Requirements

Permit Shield

New Source Review Authorization References

Applicable Requirements Summary

Unit Summary	14
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Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
LU-02	Emission Points/Stationary Vents/Process Vents	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LU-03	Emission Points/Stationary Vents/Process Vents	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LU-09	Emission Points/Stationary Vents/Process Vents	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
LU-09	Emission Points/Stationary Vents/Process Vents	N/A	R1111-01	30 TAC Chapter 111, Visible Emissions	No changing attributes.
LU-BLRFW	SRIC Engines	N/A	60IIII-01	40 CFR Part 60, Subpart IIII	No changing attributes.
LU-BLRFW	SRIC Engines	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
LU-BOILER	Boilers/Steam Generators/Steam Generating Units	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
LU-FIREPMP	SRIC Engines	N/A	63ZZZZ-01	40 CFR Part 63, Subpart ZZZZ	No changing attributes.
LU-FJ	Emission Points/Stationary Vents/Process Vents	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.
LU-KILN-E1	Plywood and Composite Wood Products	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
LU-KILN-E2	Plywood and Composite Wood Products	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
LU-KILN-W1	Plywood and Composite Wood Products	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
LU-KILN-W2	Plywood and Composite Wood Products	N/A	63DDDD-01	40 CFR Part 63, Subpart DDDD	No changing attributes.
LU-PM02	Emission Points/Stationary Vents/Process Vents	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
LU-TRIM	Emission Points/Stationary Vents/Process Vents	N/A	R1151-01	30 TAC Chapter 111, Nonagricultural Processes	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-02	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
LU-03	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None
LU-09	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
LU-09	EP	R1111-01	Opacity	30 TAC Chapter 111, Visible Emissions	§ 111.111(a)(1)(B) § 111.111(a)(1)(E)	Visible emissions from any stationary vent shall not exceed an opacity of 20% averaged over a six minute period for any source on which construction was begun after January 31, 1972.	[G]§ 111.111(a)(1)(F) ** See Periodic Monitoring Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-BLRFW	EU	60III-01	CO	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a CO emission limit of 3.5 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
LU-BLRFW	EU	60III-01	NMHC and NO _x	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 75 KW and less than or equal to 560 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with an NMHC+NO _x emission limit of 4.0 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-BLRFW	EU	60III-01	PM	40 CFR Part 60, Subpart IIII	§ 60.4205(b) § 60.4202(a)(2) § 60.4206 § 60.4207(b) [G]§ 60.4211(a) § 60.4211(c) [G]§ 60.4211(f) § 60.4218 § 89.112(a)	Owners and operators of emergency stationary CI ICE, that are not fire pump engines, with a maximum engine power greater than or equal to 130 KW and less than or equal to 2237 KW and a displacement of less than 10 liters per cylinder and is a 2007 model year and later must comply with a PM emission limit of 0.20 g/KW-hr, as stated in 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a).	§ 60.4209(a)	§ 60.4214(b)	[G]§ 60.4214(d)
LU-BLRFW	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines as applicable. No further requirements apply for such engines under this part.	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-BOILER	EU	63DDDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDDD	§ 63.7505 The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD	The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD
LU-FIREPMP	EU	63ZZZZ-01	112(B) HAPS	40 CFR Part 63, Subpart ZZZZ	§ 63.6602-Table2c.1 § 63.6595(a)(1) § 63.6605(a) § 63.6605(b) § 63.6625(e) § 63.6625(h) § 63.6625(i) § 63.6640(f)(1) § 63.6640(f)(2) § 63.6640(f)(2)(i) § 63.6640(f)(3)	For each existing emergency stationary CI RICE and black start stationary CI RICE, located at a major source, you must comply with the requirements as specified in Table 2c.1.a-c.	§ 63.6625(f) § 63.6625(i) § 63.6640(a) § 63.6640(a)-Table6.9.a.i § 63.6640(a)-Table6.9.a.ii	§ 63.6625(i) § 63.6655(d) § 63.6655(e) § 63.6655(f) § 63.6660(a) § 63.6660(b) § 63.6660(c)	§ 63.6640(e) § 63.6650(f)
LU-FJ	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-KILN-E1	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2252	For process units not subject to the compliance options or work practice requirements specified in §63.2240 (including, but not limited to, lumber kilns), you are not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this subpart, or any other requirements in subpart A of this part, except for the initial notification requirements in §63.9(b).	None	None	None
LU-KILN-E2	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2252	For process units not subject to the compliance options or work practice requirements specified in §63.2240 (including, but not limited to, lumber kilns), you are not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this subpart, or any other requirements in subpart A of this part, except for the initial notification requirements in §63.9(b).	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-KILN-W1	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2252	For process units not subject to the compliance options or work practice requirements specified in §63.2240 (including, but not limited to, lumber kilns), you are not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this subpart, or any other requirements in subpart A of this part, except for the initial notification requirements in §63.9(b).	None	None	None
LU-KILN-W2	EU	63DDDD-01	112(B) HAPS	40 CFR Part 63, Subpart DDDD	§ 63.2252	For process units not subject to the compliance options or work practice requirements specified in §63.2240 (including, but not limited to, lumber kilns), you are not required to comply with the compliance options, work practice requirements, performance testing, monitoring, SSM plans, and recordkeeping or reporting requirements of this subpart, or any other requirements in subpart A of this part, except for the initial notification requirements in §63.9(b).	None	None	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
LU-PM02	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None
LU-TRIM	EP	R1151-01	PM	30 TAC Chapter 111, Nonagricultural Processes	§ 111.151(a) § 111.151(c)	No person may cause, suffer, allow, or permit emissions of particulate matter from any source to exceed the allowable rates specified in Table 1 as follows, except as provided by §111.153 of this title (relating to Emissions Limits for Steam Generators).	** See CAM Summary	None	None

Additional Monitoring Requirements

Compliance Assurance Monitoring Summary	24
Periodic Monitoring Summary	29

CAM Summary

Unit/Group/Process Information	
ID No.: LU-09	
Control Device ID No.: LU-WSCR-09	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum pressure drop = 5.0 in. H ₂ O	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 1 inch water gauge pressure (± 250 pascals); or ± 2% of span. 	

CAM Summary

Unit/Group/Process Information	
ID No.: LU-09	
Control Device ID No.: LU-WSCR-09	Control Device Type: Wet Scrubber
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Liquid Flow Rate	
Minimum Frequency: four times per hour	
Averaging Period: one hour	
Deviation Limit: Minimum liquid flow rate = 20 gpm for loads > 30 percent; Minimum liquid flow rate = 10 gpm for loads < 30 percent	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 2% of span; or ± 5% of design liquid flow rate. 	

CAM Summary

Unit/Group/Process Information	
ID No.: LU-FJ	
Control Device ID No.: LU-03	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: once per day	
Averaging Period: n/a	
Deviation Limit: Minimum pressure drop = 0.2 in. H ₂ O; Maximum pressure drop = 7.0 in. H ₂ O	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 0.5 inches water gauge pressure (± 125 pascals); or ± 0.5% of span. 	

CAM Summary

Unit/Group/Process Information	
ID No.: LU-PM02	
Control Device ID No.: LU-02	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: once per day	
Averaging Period: n/a	
Deviation Limit: Minimum pressure drop = 0.2 in. H ₂ O; Maximum pressure drop = 7.0 in. H ₂ O	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 0.5 inches water gauge pressure (± 125 pascals); or ± 0.5% of span. 	

CAM Summary

Unit/Group/Process Information	
ID No.: LU-TRIM	
Control Device ID No.: LU-03	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Nonagricultural Processes	SOP Index No.: R1151-01
Pollutant: PM	Main Standard: § 111.151(a)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: once per day	
Averaging Period: n/a	
Deviation Limit: Minimum pressure drop = 0.2 in. H ₂ O; Maximum pressure drop = 7.0 in. H ₂ O	
<p>CAM Text: Each monitoring device shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent, and shall be accurate to within one of the following:</p> <ul style="list-style-type: none"> ± 0.5 inches water gauge pressure (± 125 pascals); or ± 0.5% of span. 	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LU-02	
Control Device ID No.: LU-02	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: Minimum pressure drop = 0.2 in. H ₂ O; Maximum pressure drop = 7.0 in. H ₂ O	
<p>Periodic Monitoring Text: Measure and record the pressure drop. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit or above the maximum limit shall be considered and reported as a deviation.</p>	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LU-03	
Control Device ID No.: LU-03	Control Device Type: Fabric Filter
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Pressure Drop	
Minimum Frequency: Once per week	
Averaging Period: n/a	
Deviation Limit: Minimum pressure drop = 0.2 in. H ₂ O; Maximum pressure drop = 7.0 in. H ₂ O	
Periodic Monitoring Text: Measure and record the pressure drop. The monitoring instrumentation shall be calibrated, maintained and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit or above the maximum limit shall be considered and reported as a deviation.	

Periodic Monitoring Summary

Unit/Group/Process Information	
ID No.: LU-09	
Control Device ID No.: N/A	Control Device Type: N/A
Applicable Regulatory Requirement	
Name: 30 TAC Chapter 111, Visible Emissions	SOP Index No.: R1111-01
Pollutant: Opacity	Main Standard: § 111.111(a)(1)(B)
Monitoring Information	
Indicator: Visible Emissions	
Minimum Frequency: Once per day	
Averaging Period: n/a	
Deviation Limit: Maximum opacity = 20%	
<p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Visible emissions observations shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. If on a given day the unit operates only during a period in which light conditions are insufficient to conduct a valid visible emission observation, as defined above, the permit holder shall conduct a visible emissions observation during daylight hours the next day that it operates. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p>	

Permit Shield

Permit Shield 33

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit/Group/Process		Regulation	Basis of Determination
ID No.	Group/Inclusive Units		
DIESEL-TK	N/A	40 CFR Part 60, Subpart K	The capacity of this tank is less than 151,412 liters (40,000 gallons).
DIESEL-TK	N/A	40 CFR Part 60, Subpart Kb	The capacity of this tank is less than 75 cubic meters (19,800 gallons).
GAS-TK	N/A	40 CFR Part 60, Subpart Kb	The capacity of this tank is less than 75 cubic meters (19,800 gallons).
LU-BOILER	N/A	40 CFR Part 60, Subpart D	The heat input rate of this boiler is less than 73 megawatts (250 MMBtu/hr).
LU-BOILER	N/A	40 CFR Part 60, Subpart Db	The construction, modification, or reconstruction of this boiler was not commenced after June 19, 1984.
LU-BOILER	N/A	40 CFR Part 60, Subpart Dc	The maximum design heat input capacity of this boiler is greater than 29 megawatts (100 MMBtu/hr).
LU-FIREPMP	N/A	40 CFR Part 60, Subpart IIII	The stationary compression ignition internal combustion engine commenced construction (i.e, was ordered) prior to July 11, 2005.
LU-MVDISP	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Facility is a motor vehicle fuel dispensing facility in a covered attainment county.

New Source Review Authorization References

New Source Review Authorization References	35
New Source Review Authorization References by Emission Unit	36

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Prevention of Significant Deterioration (PSD) Permits	
PSD Permit No.: PSDTX1008M2	Issuance Date: 12/22/2017
Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 17395	Issuance Date: 12/22/2017
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.321	Version No./Date: 09/04/2000
Number: 106.371	Version No./Date: 09/04/2000
Number: 106.392	Version No./Date: 09/04/2000
Number: 106.412	Version No./Date: 09/04/2000
Number: 106.433	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 03/14/1997
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.476	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization
DIESEL-TK	Diesel Tank	17395, PSDTX1008M2
GAS-TK	Gasoline Tank	17395, PSDTX1008M2
LU-02	Planer Mill Baghouse	17395, PSDTX1008M2
LU-03	Dry Trim/Finger Joint Baghouse	17395, PSDTX1008M2
LU-09	Wood-Fired Boiler Stack	17395, PSDTX1008M2
LU-BLRFW	Boiler Feed Water Emergency Engine	106.511/09/04/2000
LU-BOILER	Wood-Fired Boiler	17395, PSDTX1008M2
LU-FIREPMP	Firewater Pump Stationary Diesel Engine	106.511/09/04/2000
LU-FJ	Finger Joint	17395, PSDTX1008M2
LU-KILN-E1	East Lumber Kiln 1	17395, PSDTX1008M2
LU-KILN-E2	East Lumber Kiln 2	17395, PSDTX1008M2
LU-KILN-W1	West Lumber Kiln 1	17395, PSDTX1008M2
LU-KILN-W2	West Lumber Kiln 2	17395, PSDTX1008M2
LU-MVDISP	Gasoline Fuel Dispensing	106.412/09/04/2000
LU-PM02	Planer Mill #2	17395, PSDTX1008M2
LU-TRIM	Dry Trim	17395, PSDTX1008M2

Appendix A

Acronym List 38

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	actual cubic feet per minute
AMOC	alternate means of control
ARP	Acid Rain Program
ASTM	American Society of Testing and Materials
B/PA	Beaumont/Port Arthur (nonattainment area)
CAM	Compliance Assurance Monitoring
CD	control device
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
COMS	continuous opacity monitoring system
CVS	closed vent system
D/FW	Dallas/Fort Worth (nonattainment area)
EP	emission point
EPA	U.S. Environmental Protection Agency
EU	emission unit
FCAA Amendments	Federal Clean Air Act Amendments
FOP	federal operating permit
gr/100 scf	grains per 100 standard cubic feet
HAP	hazardous air pollutant
H/G/B	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	hydrogen sulfide
ID No.	identification number
lb/hr	pound(s) per hour
MACT	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	Million British thermal units per hour
NA	nonattainment
N/A	not applicable
NADB	National Allowance Data Base
NESHAP	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	nitrogen oxides
NSPS	New Source Performance Standard (40 CFR Part 60)
NSR	New Source Review
ORIS	Office of Regulatory Information Systems
Pb	lead
PBR	Permit By Rule
PEMS	predictive emissions monitoring system
PM	particulate matter
ppmv	parts per million by volume
PRO	process unit
PSD	prevention of significant deterioration
psia	pounds per square inch absolute
SIP	state implementation plan
SO ₂	sulfur dioxide
TCEQ	Texas Commission on Environmental Quality
TSP	total suspended particulate
TVP	true vapor pressure
U.S.C.	United States Code
VOC	volatile organic compound

Appendix B

Major NSR Summary Table 40

Major NSR Summary Table

Permit Numbers: 17395 and PSDTX1008M2					Issuance Date: 11/02/2017		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour (14)	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
LU-04-FU (15)	West Lumber Kilns 1 and 2	VOC (7)	105.66	---	19, 21, 22, 26, 27, 31, 32, 35, 36	22, 31, 39	2, 21, 22, 26, 28, 29, 30, 33, 37
		PM	1.04	---			
		PM ₁₀	1.04	---			
		PM _{2.5}	1.04	---			
		Acetaldehyde	0.93	---			
		MeOH	5.51	---			
		CHOH	0.35	---			
		Phenol	0.23	---			
		Total HAPs	7.21	---			
LU-05-FU (15)	East Lumber Kilns 1 and 2	VOC (7)	108.08	---	19, 21, 22, 26, 27, 31, 32, 35, 36	22, 31, 39	2, 21, 22, 26, 28, 29, 30, 33, 37
		PM	1.06	---			
		PM ₁₀	1.06	---			
		PM _{2.5}	1.06	---			
		Acetaldehyde	0.95	---			

Major NSR Summary Table

Permit Numbers: 17395 and PSDTX1008M2					Issuance Date: 11/02/2017		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour (14)	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		MeOH	5.63	---			
		CHOH	0.36	---			
		Phenol	0.23	---			
		Total HAPs	7.38	---			
LU-04-FU and LU-05-FU	West Lumber Kilns 1 and 2 and East Lumber Kilns 1 and 2	VOC (7)	---	717.00	19, 21, 22, 26, 27, 31, 32, 35, 36	22, 31, 39	2, 21, 22, 26, 28, 29, 30, 33, 37
		PM	---	7.03			
		PM ₁₀	---	7.03			
		PM _{2.5}	---	7.03			
		Acetaldehyde	---	6.30			
		MeOH	---	37.36			
		CHOH	---	2.37			
		Phenol	---	1.54			
		Total HAPs	---	48.95			
LU-09	Wood-Fired Boiler	VOC (8)	7.14	31.27	2, 18, 21, 24, 25, 26, 27, 31,	2, 24, 25, 31, 39	2, 21, 26, 28, 29, 30,

Major NSR Summary Table

Permit Numbers: 17395 and PSDTX1008M2					Issuance Date: 11/02/2017		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour (14)	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Wet Scrubber Stack	NO _x	30.54	133.33	32, 38		33, 37
		SO ₂	2.18	7.06			
		PM	19.45	85.15			
		PM ₁₀ (9)	11.24	49.19			
		PM _{2.5} (9)	10.41	45.55			
		CO (10)	411.63	1416.49			
		Pb	0.08	0.35			
		C ₆ H ₆	0.75	3.28			
		Ethyl Benzene	0.23	1.03			
		CHOH	0.08	0.35			
		HCl	2.46	10.76			
		MeOH	0.23	1.01			
		Styrene	0.40	1.74			
		Total HAPs	5.56	24.37			

Major NSR Summary Table

Permit Numbers: 17395 and PSDTX1008M2					Issuance Date: 11/02/2017		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour (14)	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
LU-SM-FU	Sawmill (5) (11)	PM	0.23	0.55	21, 23	23, 39	21, 23
		PM ₁₀	0.08	0.20			
		PM _{2.5}	0.02	0.06			
LU-LGPR-FU	Log Processing (Crook Saw, Bucking Saw, and Ring Debarker) (5) (11)	PM	0.82	1.65	21, 23	23, 39	21, 23
		PM ₁₀	0.12	0.23			
		PM _{2.5}	0.02	0.04			
LU-10A-FU	Lumber Fuel Truck Dump (5)	PM	2.44	0.01	21, 23	23, 39	21, 23
		PM ₁₀	0.03	<0.01			
		PM _{2.5}	<0.01	<0.01			
LU-TL-FU	Sawdust Truck Loading (5)	PM	0.04	0.02	21, 23	23, 39	21, 23
		PM ₁₀	0.02	0.01			
		PM _{2.5}	<0.01	<0.01			
LU-TLSH-FU	Shavings Truck Loading (5)	PM	0.04	0.01	21, 23	23, 39	21, 23
		PM ₁₀	0.02	<0.01			

Major NSR Summary Table

Permit Numbers: 17395 and PSDTX1008M2					Issuance Date: 11/02/2017		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour (14)	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
		PM _{2.5}	<0.01	<0.01			
LU-MH-FU	General Material Handling (5)(11)	PM	0.23	0.63	21, 23	23, 39	21, 23
		PM ₁₀	0.11	0.30			
		PM _{2.5}	0.02	0.05			
LU-BARK-FU	Sitewide Bark Handling (5)(11)	PM	2.48	4.95	21, 23	23, 39	21, 23
		PM ₁₀	0.03	0.05			
		PM _{2.5}	0.01	0.01			
LU-CHIP-FU	Sitewide Chip Handling (5)(11)	PM	0.52	0.92	21, 23	23, 39	21, 23
		PM ₁₀	0.01	0.01			
		PM _{2.5}	<0.01	<0.01			
LU-02	Planer Mill Baghouse Stack (12)	PM	1.00	4.37	20, 21, 22, 24, 25, 26, 27, 31, 32, 38	22, 24, 25, 31, 39	21, 22, 26, 28, 29, 30, 33, 37
		PM ₁₀	1.00	4.37			
		PM _{2.5}	0.70	3.04			
LU-03	Dry Trim/Finger	PM	1.03	4.49	20, 21, 22, 24, 25, 26, 27,	22, 24, 25, 31, 39	21, 22, 26, 28, 29,

Major NSR Summary Table

Permit Numbers: 17395 and PSDTX1008M2					Issuance Date: 11/02/2017		
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)		Monitoring and Testing Requirements	Recordkeeping Requirements	Reporting Requirements
			lbs/hour (14)	TPY (4)	Spec. Cond.	Spec. Cond.	Spec. Cond.
	Joint Baghouse Stack (12)	PM ₁₀	1.03	4.49	31, 32, 38		30, 33, 37
		PM _{2.5}	0.67	2.91			
LU-RES-FU	Finger Joint Resin Application (5)	VOC (13)	1.04	2.98	21		21
		Diethyl Glycol Ethyl Ether Acetate	0.95	2.72			
		Total HAPs	1.04	2.98			
LU-11	Gasoline Tank (5)	VOC (13)	112.49	2.50	21		21
LU-12	Diesel Tank (5)	VOC (13)	0.35	<0.01	21		21
LU-CHPAD-FU	Chip Pad (5)(11)	PM	0.10	0.17	21, 23	23, 29	21, 23
		PM ₁₀	0.05	0.08			
		PM _{2.5}	0.01	0.01			
LU-TLCH-FU	Chips Truck Loading (FB)(5)(11)	PM	0.13	0.17	21, 23	23, 29	21, 23
		PM ₁₀	0.06	0.08			
		PM _{2.5}	0.01	0.01			

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources, use area name or fugitive source name.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
MeOH	- methanol
CHOH	- formaldehyde

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of permit alteration issued on March 28, 2013.
- (7) VOC presented on a Wood Products Protocol No. 1 (WPP1) basis.
- (8) VOC presented on a carbon basis.
- (9) Compliance with PM₁₀ and PM_{2.5} based on Method 5, Method 202, and Electrical Sensing Zone particle size distribution analysis.
- (10) CO compliance shall be demonstrated on a daily (24-hour average) basis.
- (11) Compliance shall be demonstrated on a daily (24-hour average) basis.
- (12) For demonstrating compliance, the hourly and annual emissions from the EPNs LU-02 and LU-03 should be summed.
- (13) VOC presented as sum of VOC species.
- (14) Unless otherwise indicated, compliance with all short-term emission limits shall be demonstrated on a 3-hour average basis.
- (15) For demonstrating compliance, emissions from the kilns (EPNs LU-04-FU and LU-05-FU) should be summed. Short-term emission rates are averaged over kiln cycle time.

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 22, 2017

MR BILL ECKMANN
PLANT MANAGER
GEORGIA PACIFIC WOOD PRODUCTS SOUTH LLC
100 MARTIN LUTHER KING JR ST
DIBOLL TX 75941-1913

Re: Permit Alteration
Permit Numbers: 17395 and PSDTX1008M2
Expiration Date: November 2, 2027
Georgia-Pacific Wood Products South LLC
Lumber Manufacturing Plant
Diboll, Angelina County
Regulated Entity Number: RN104725445
Customer Reference Number: CN603181850

Dear Mr. Eckmann:

This is in response to your letter received November 27, 2017, requesting an alteration to make changes to representations of the above-referenced permit in accordance with Title 30 Texas Administrative Code §116.116(c). We understand that you plan to conduct a trial to lower the operating pressure of the Wood-Fired Boiler (Emission Point Number [EPN] LU-09) from 250 pounds per square inch (psi) to approximately 150 to 180 psi. We also understand that this project will not result in any increase in emissions, or any change in character of emissions, or a change in the method of control. These changes have been reviewed and the permit file has been updated. Please attach this letter to your permit.

You are reminded that these facilities must be in compliance with all rules and regulations of the Texas Commission on Environmental Quality (TCEQ) and of the U.S. Environmental Protection Agency at all times.

If you need further information or have any questions, please contact Mr. Patrick Agumadu, P.E. at (512) 239-1271 or write to the Texas Commission on Environmental Quality, Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

Mr. Bill Eckmann
Page 2
December 22, 2017

Re: Permit Numbers: 17395 and PSDTX1008M2

This action is taken under authority delegated by the Executive Director of TCEQ.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Wilson", with a stylized flourish at the end.

Michael Wilson, P.E., Director
Air Permits Division
Office of Air
Texas Commission on Environmental Quality

Enclosure

cc: Air Section Manager, Region 10 - Beaumont
Air Permits Section Chief, New Source Review Section (6PD-R), U.S. Environmental Protection
Agency, Region 6, Dallas

Project Number: 278398



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Georgia-Pacific Wood Products South LLC
Authorizing the Construction and Operation of
Lumber Manufacturing Plant
Located at Diboll, Angelina County, Texas
Latitude 31° 10' 58" Longitude -94° 47' 16"

Permits: 17395 and PSDTX1008M2

Amendment Date: November 2, 2017

Expiration Date: November 2, 2027

A handwritten signature in black ink, appearing to read "R. A. Hyle".

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)]¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

8. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)]¹
9. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC§ 116.115(b)(2)(G)]
10. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
11. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
12. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
13. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
14. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Special Conditions

Permit Numbers 17395 and PSDTX1008M2

Emission Standards

1. Total emissions from this facility shall not exceed values stated on the attached table, entitled "Emission Sources - Maximum Allowable Emission Rates." In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

Federal Applicability

2. All affected facilities shall comply with all applicable requirements of the EPA Regulations on National Emission Standards for Hazardous Air Pollutants for Source Categories in 40 CFR Part 63, specifically the following:
 - A. Subpart A - General Provisions; and
 - B. Subpart DDDD – Plywood and Composite Wood Products
 - C. Subpart DDDDD - Industrial, Commercial, and Institutional Boilers and Process Heaters.

Fuel Specification

3. Fuel for the Wood-Fired Boiler (Emission Point Number [EPN] LU-09) shall be limited to wood residuals and diesel. No processed wood containing resins or other non-natural materials shall be fired in this boiler.

Opacity/Visible Emission Limitations

4. Opacity of particulate emissions from the kiln vents, the Planer Mill Baghouse Stack (EPN LU-02), and the Dry Trim/Finger Joint Baghouse Stack (EPN LU-03) shall not exceed 5 percent, when adjusted for uncombined water vapor, averaged over a six-minute period, except during scheduled or planned maintenance, startup, and shutdown (MSS) activities such as those times described in 30 TAC § 101.211.
5. Opacity of emissions from the Wood-Fired Boiler Wet Scrubber (EPN LU-09) shall not exceed 20 percent averaged over a six-minute period, except for those periods described in Texas Commission On Environmental Quality (TCEQ) 30 TAC Section 111.111(a)(1)(E).
6. Visible fugitive emissions from the all raw material handling areas, including fuel handling (wood) shall not leave the property for more than 30 cumulative seconds in any six-minute period.

Operational Limitations, Work Practices, and Plant Design

7. The facilities are authorized to operate up to 8,760 hours per year.
8. The kilns shall use steam heat as the drying source.
9. The doors to the kilns shall remain closed for the duration of the drying process.

10. Plant roads shall be paved with a cohesive hard surface, and/or sprinkled with water, and/or dust suppressants and/or sweeping as necessary to minimize air pollution.
11. In order to minimize fugitive dust emissions, any areas where wood dust and/or wood waste is observed to collect shall be cleaned and/or washed as soon as practical. All wood dust and wood wastes collected from these areas shall be properly handled to prevent re-entrainment of wood dust into the air.
12. Lumber production shall be limited to 183,000 nominal board feet (BF) per charge for any one of the four kilns; 175,000 nominal BF per charge for any of the remaining three kilns; and a maximum of 250,000,000 nominal BF per year for all the four kilns.
13. The Boiler (EPN LU-09) shall be limited to the following firing rates, averaged over a three hour period: 120,000 pounds per hour (lbs/hr) steam production; 175 MMBTU/hour heat input on a 3-hour basis (based on firing 19.6 tons /hr [based on 3-hour average] of wet wood at 4,450 BTU/lb).
14. Boiler operating instructions shall be established and must be posted such that they are available for all boiler operators.
15. The boiler shall not be operated when the wet scrubber is not operating normally.
16. Disposal of ash shall be accomplished in a manner that will prevent the ash from becoming airborne.
17. All baghouse drop points shall be fully enclosed or designed to prevent dust from becoming airborne. Disposal of baghouse dust shall be accomplished without causing dust emissions. There shall be no outdoor storage of baghouse dust except in covered containers. Replaced or used bags shall be disposed of in a manner that will prevent fugitive dust emissions. The permit holder shall maintain a 15 percent supply of spare bags for all baghouses at all times at the plant site.

Initial Determination of Compliance

18. The holder of this permit shall perform stack sampling and other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the wood-fired boiler wet scrubber. Air contaminants emitted from the boiler and to be tested include (but are not limited to) carbon monoxide (CO). Sampling shall be accomplished within 180 days after startup of the boiler project implementation and at such other times as may be required by the Executive Director of the TCEQ.

Demonstration of Continuous Compliance

19. Upon request of the Executive Director of the TCEQ, the holder of this permit shall perform stack sampling analysis for particulate matter (PM) and total volatile organic compounds (VOC) and/or other testing as required to establish the actual pattern and quantities of air contaminants being emitted into the atmosphere from the kiln exhaust.
20. Upon being informed by the TCEQ Executive Director that the staff has documented visible emissions exceeding 5 percent opacity from any baghouse stack, averaged over six consecutive minutes, the holder of this permit shall conduct stack sampling analyses or other tests to prove

satisfactory equipment performance and demonstrate compliance with the permit allowable emission rates for PM. Sampling must be conducted in accordance with appropriate procedures of the TCEQ Sampling Procedures Manual or in accordance with applicable EPA Code of Federal Regulations procedures. Any deviations from those procedures must be approved by the TCEQ Executive Director prior to sampling.

21. In addition to the above compliance requirements, the TCEQ Regional Director may require stack sampling or ambient air monitoring to determine the opacity, rate, composition, and/or concentration of the permitted facilities' emissions. The holder of this permit may request the TCEQ Executive Director to approve alternate sampling techniques or other means to determine the opacity, rates, composition, and/or concentration of emissions in accordance with the TCEQ 30 TAC Section 101.8.
22. The holder of this permit shall conduct a quarterly visible emissions observation to demonstrate compliance with the opacity limitations specified in this permit for the Kiln Vents; the Planer Mill Baghouse Stack (EPN LU-02); and the Dry Trim/Finger Joint Baghouse (EPN LU-03). This visible emissions observation shall be performed: 1) during normal plant operations, 2) with the sun behind the observer (to the extent practicable), and 3) at least two stack heights, but not more than five stack heights, from the emission point. If visible emissions are observed from the emission point, the owner or operator shall:
 - A. Take immediate action to eliminate visible emissions, record the corrective action within 24 hours, and comply with any applicable requirements in 30 Texas Administrative Code (TAC) § 101.201, Emissions Event Reporting and Record Keeping Requirements; or
 - B. Determine opacity using 40 CFR Part 60, Appendix A, Test Method 9. If the opacity limit is exceeded, take immediate action (as appropriate) to reduce opacity to within the permitted limit, record the corrective action within 24 hours, and comply with applicable requirements in 30 TAC § 101.201, Emissions Event Reporting and Record Keeping Requirements.
23. The holder of this permit shall conduct a quarterly visible emissions observation to demonstrate compliance with the visible emissions limitation specified in this permit from the raw material handling areas, including fuel handling (wood). This visible emissions observation shall be performed: 1) during normal plant operations, 2) with the sun behind the observer (to the extent practicable), 3) at least 15 feet, but not more than 0.25 mile, from the plume. If visible emissions are observed, the owner or operator shall:
 - A. Take immediate action (as appropriate) to eliminate the excessive visible emissions, record the corrective action within 24 hours of completion, and comply with any applicable requirements in 30 Texas Administrative Code (TAC) § 101.201, Emissions Event Reporting and Record Keeping Requirements; or
 - B. Determine visual emissions using 40 CFR Part 60, Appendix A, Test Method 22, except where stated otherwise in this condition. If visible emissions leaving the property exceed 30 cumulative seconds in any six-minute period, the owner or operator shall take immediate action (as appropriate) to eliminate the excessive visible emissions, and comply with applicable requirements in 30 TAC § 101.201, Emissions Event Reporting and Record Keeping Requirements. The corrective action shall be documented within 24 business hours of completion.

Compliance Assurance Monitoring

24. In order to maintain adequate particulate control for the emissions associated with the Wood Fired Boiler, the Planer Mill, and the Dry Trim/Finger Joint Operation, the control devices associated with these sources shall be monitored according to the following:

Table 1: Compliance Assurance Monitoring

Control Device	Monitoring Parameter	Minimum Monitoring Frequency	Averaging Time	Deviation Limit(s)
Wood-Fired Boiler Scrubber (EPN LU-09)	Pressure Drop	four times per hour	one hour	Min. Pressure Drop: 5.0 inch H ₂ O
	Liquid Flow Rate	four times per hour	one hour	Min. Scrubber Liquid Flow Rate: 20 gpm at loads above 30% and 10 gpm at loads below 30%
Planer Mill Baghouse (EPN LU-02)	Pressure Drop	once per day	N/A*	Min. Pressure Drop: 0.2 inch H ₂ O Max. Pressure Drop: 7.0 inch H ₂ O
Dry Trim/Finger Joint Baghouse (EPN LU-03)	Pressure Drop	once per day	N/A*	Min. Pressure Drop: 0.2 inch H ₂ O Max. Pressure Drop: 7.0 inch H ₂ O

* Permit holder may elect to collect monitoring data on a more frequent basis than is required by minimum frequency and calculate a daily average for purposes on determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis and shall not be collected and used in particular instances in order to avoid reporting deviations.

25. Each monitoring devices shall be calibrated at a frequency in accordance with the manufacturer's specifications, other written procedures that provide an adequate assurance that the device is calibrated accurately, or at least annually, whichever is more frequent. When calibrated the monitoring devices shall be accurate to within the following parameters:

Scrubber pressure drop ± 1 inch H₂O guage (± 250 Pa) and $\pm 2\%$ of span

Scrubber liquid flow rate $\pm 2\%$ of span and $\pm 5\%$ of design liquid flow rate

Baghouse pressure drop ± 0.5 inch H₂O guage (± 125 Pa) or $\pm 0.5\%$ of span

The monitoring parameters must be measured and recorded at the frequency indicated in the table above. Immediate corrective action should be taken if the monitoring parameters fall outside of the range specified in this condition.

Sampling Requirements

26. The holder of this permit is responsible for providing sampling and testing facilities and conducting the sampling and testing operations at their own expense. Sampling ports and platforms shall be incorporated into the design of the stack(s) according to the specifications set forth in the attachment entitled "Chapter 2, Stack Sampling Facilities" prior to stack sampling. Alternate sampling facility designs may be submitted for approval by the TCEQ Regional Office with jurisdiction.
27. Sampling shall be conducted in accordance with the TCEQ *Sampling Procedures Manual* and EPA Test Methods in 40 CFR Part 60, Appendix A, and 40 CFR Part 51, Appendix M, as follows:
 - A. Test Methods 1 through 4, as appropriate, for exhaust flow, diluent, and moisture concentration;
 - B. Test Method 5 or 17, modified with a controlled condensate method subject to approval from the TCEQ prior to sampling, for the concentration of total PM;
 - C. Test Method 5 or 17 for the filterable concentration of PM (front-half catch);
 - D. Test Method 5 or 201A, for the filterable concentration of PM₁₀ (front-half catch);
 - E. Test Methods 201A and 202 (or Test Method 5), modified with a controlled condensate method subject to approval from the TCEQ prior to sampling, for the concentration of PM₁₀ including back-half condensibles;
 - F. Test Method 6, 6a, 6c, or 8 for the concentration of SO₂;
 - G. Test Method 7E, or equivalent methods, for the concentrations of NO_x and O₂;
 - H. Test Method 10 for the concentration of CO; and
 - I. Test Method 25A, modified to exclude methane and ethane, for the concentration of VOC (to measure total carbon as propane).
28. A pretest meeting shall be held with personnel from the TCEQ before the required tests are performed. The TCEQ Regional Office with jurisdiction shall be notified not less than 45 days prior to sampling to schedule a pretest meeting. The notice shall include:
 - A. Date for pretest meeting;
 - B. Date sampling will occur;
 - C. Points or sources to be sampled;
 - D. Name of firm conducting sampling;
 - E. Type of sampling equipment to be used; and
 - F. Method or procedure to be used in sampling.

The purpose of the pretest meeting is to review the necessary sampling and testing procedures, to provide the proper data forms for recording pertinent data, and to review the format procedures for submitting the test reports.

29. Alternate sampling methods and representative unit testing may be proposed by the permit holder. A written proposed description of any deviation from sampling procedures or emission sources specified in permit conditions or TCEQ or EPA sampling procedures shall be made available to the TCEQ prior to the pretest meeting. Such a proposal must be approved by the TCEQ Regional Office with jurisdiction at least two weeks prior to sampling.
30. Requests to waive testing for any pollutant specified shall be submitted, in writing, for approval to the TCEQ Office of Air, Air Permits Division in Austin.
31. During stack sampling emission testing, the facilities shall operate at maximum represented production. Primary operating parameters that enable determination of production rates shall be monitored and recorded during the stack test. These parameters are to be determined at the pretest meeting.
32. If the plant is unable to operate at the maximum represented production rates during testing, then additional stack testing shall be required when the production rate exceeds the previous stack test production rate by +10 percent unless otherwise determined, in writing, by the TCEQ Executive Director.
33. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with the applicable federal requirements requires EPA approval, and requests shall be submitted to the TCEQ Regional Office with jurisdiction.
35. Air contaminants emitted from East Lumber Kilns 1 and/or 2 and West Lumber Kilns 1 and/or 2 to be tested for include (but are not limited to) PM, VOC, methanol, and formaldehyde.
36. Sampling of East Lumber Kilns 1 and/or 2 and West Lumber Kilns 1 and/or 2 shall occur within 90 days of such request by the Executive Director of the TCEQ or a representative. Requests for additional time to perform sampling shall be submitted to the TCEQ Regional Office with jurisdiction. Additional time to comply with the applicable federal requirements requires EPA approval, and requests shall be submitted to the TCEQ Regional Office with jurisdiction.
37. Copies of the final sampling report shall be forwarded to the TCEQ within 60 days after sampling is completed. Sampling reports shall comply with the attached provisions of Chapter 14 of the TCEQ *Sampling Procedures Manual*. The reports shall be distributed as follows:

One copy to the TCEQ Regional Office with jurisdiction.

One copy to the TCEQ Office of Air, Air Permits Division in Austin.

One copy to each appropriate local air pollution control program with jurisdiction.

Continuous Monitoring

38. The permit holder shall conduct a once a month visual, audible, and/or olfactory inspection of the capture system to verify there are no leaking components in the capture system.

Recordkeeping Requirements

39. Records shall be maintained at this facility site and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be compiled for each calendar month, retained for a rolling 60-month period, and include the following:
- A. Hours of operation of the boiler;
 - B. The feed rate of fuel to the boiler in tons/hr (based on 3-hour average);
 - C. Steam production in lbs/hr;
 - D. The pressure drop, in inches of water, across the scrubber;
 - E. The pressure drop, in inches of water, across each baghouse;
 - F. Lumber production records, calculated on a weekly basis, to demonstrate compliance with the annual production limit as listed in Special Condition No. 12;
 - G. Quarterly observations for visible emissions and/or opacity observations; and
 - H. All repairs and maintenance of air pollution abatement equipment.

Dated: November 2, 2017

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 17395 and PSDTX1008M2

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour (14)	TPY (4)
LU-04-FU (15)	West Lumber Kilns 1 and 2	VOC (7)	105.66	---
		PM	1.04	---
		PM ₁₀	1.04	---
		PM _{2.5}	1.04	---
		Acetaldehyde	0.93	---
		MeOH	5.51	---
		CHOH	0.35	---
		Phenol	0.23	---
		Total HAPs	7.21	---
LU-05-FU (15)	East Lumber Kilns 1 and 2	VOC (7)	108.08	---
		PM	1.06	---
		PM ₁₀	1.06	---
		PM _{2.5}	1.06	---
		Acetaldehyde	0.95	---
		MeOH	5.63	---
		CHOH	0.36	---
		Phenol	0.23	---
		Total HAPs	7.38	---
LU-04-FU and LU-05-FU	West Lumber Kilns 1 and 2 and East Lumber Kilns 1 and 2	VOC (7)	---	717.00
		PM	---	7.03
		PM ₁₀	---	7.03

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour (14)	TPY (4)
		PM _{2.5}	---	7.03
		Acetaldehyde	---	6.30
		MeOH	---	37.36
		CHOH	---	2.37
		Phenol	---	1.54
		Total HAPs	---	48.95
LU-09	Wood-Fired Boiler Wet Scrubber Stack	VOC (8)	7.14	31.27
		NO _x	30.54	133.33
		SO ₂	2.18	7.06
		PM	19.45	85.15
		PM ₁₀ (9)	11.24	49.19
		PM _{2.5} (9)	10.41	45.55
		CO (10)	411.63	1416.49
		Pb	0.08	0.35
		C ₆ H ₆	0.75	3.28
		Ethyl Benzene	0.23	1.03
		CHOH	0.08	0.35
		HCl	2.46	10.76
		MeOH	0.23	1.01
		Styrene	0.40	1.74
		Total HAPs	5.56	24.37
LU-SM-FU	Sawmill (5) (11)	PM	0.23	0.55
		PM ₁₀	0.08	0.20
		PM _{2.5}	0.02	0.06

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour (14)	TPY (4)
LU-LGPR-FU	Log Processing (Crook Saw, Bucking Saw, and Ring Debarker) (5) (11)	PM	0.82	1.65
		PM ₁₀	0.12	0.23
		PM _{2.5}	0.02	0.04
LU-10A-FU	Lumber Fuel Truck Dump (5)	PM	2.44	0.01
		PM ₁₀	0.03	<0.01
		PM _{2.5}	<0.01	<0.01
LU-TL-FU	Sawdust Truck Loading (5)	PM	0.04	0.02
		PM ₁₀	0.02	0.01
		PM _{2.5}	<0.01	<0.01
LU-TLSH-FU	Shavings Truck Loading (5)	PM	0.04	0.01
		PM ₁₀	0.02	<0.01
		PM _{2.5}	<0.01	<0.01
LU-MH-FU	General Material Handling (5)(11)	PM	0.23	0.63
		PM ₁₀	0.11	0.30
		PM _{2.5}	0.02	0.05
LU-BARK-FU	Sitewide Bark Handling (5)(11)	PM	2.48	4.95
		PM ₁₀	0.03	0.05
		PM _{2.5}	0.01	0.01
LU-CHIP-FU	Sitewide Chip Handling (5)(11)	PM	0.52	0.92
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
LU-02	Planer Mill Baghouse Stack (12)	PM	1.00	4.37
		PM ₁₀	1.00	4.37
		PM _{2.5}	0.70	3.04

Emission Sources - Maximum Allowable Emission Rates

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (6)	
			lbs/hour (14)	TPY (4)
LU-03	Dry Trim/Finger Joint Baghouse Stack (12)	PM	1.03	4.49
		PM ₁₀	1.03	4.49
		PM _{2.5}	0.67	2.91
LU-RES-FU	Finger Joint Resin Application (5)	VOC (13)	1.04	2.98
		Diethyl Glycol Ethyl Ether Acetate	0.95	2.72
		Total HAPs	1.04	2.98
LU-11	Gasoline Tank (5)	VOC (13)	112.49	2.50
LU-12	Diesel Tank (5)	VOC (13)	0.35	<0.01
LU-CHPAD-FU	Chip Pad (5)(11)	PM	0.10	0.17
		PM ₁₀	0.05	0.08
		PM _{2.5}	0.01	0.01
LU-TLCH-FU	Chips Truck Loading (FB)(5)(11)	PM	0.13	0.17
		PM ₁₀	0.06	0.08
		PM _{2.5}	0.01	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
MeOH - methanol
CHOH - formaldehyde
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Planned startup and shutdown emissions are included, as well as planned maintenance activities identified as part of permit alteration issued on March 28, 2013.
(7) VOC presented on a Wood Products Protocol No. 1 (WPP1) basis.
(8) VOC presented on a carbon basis.
(9) Compliance with PM₁₀ and PM_{2.5} based on Method 5, Method 202, and Electrical Sensing Zone

Emission Sources - Maximum Allowable Emission Rates

particle size distribution analysis.

(10)CO compliance shall be demonstrated on a daily (24-hour average) basis.

(11)Compliance shall be demonstrated on a daily (24-hour average) basis.

(12) For demonstrating compliance, the hourly and annual emissions from the EPNs LU-02 and LU-03 should be summed.

(13)VOC presented as sum of VOC species.

(14)Unless otherwise indicated, compliance with all short-term emission limits shall be demonstrated on a 3-hour average basis.

(15) For demonstrating compliance, emissions from the kilns (EPNs LU-04-FU and LU-05-FU) should be summed. Short-term emission rates are averaged over kiln cycle time.

Date: November 2, 2017